

Notice of Allowability

Application N .

10/775,637

Examiner

Ashok Patel

Applicant(s)

TOJO ET AL.

Art Unit

2879

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION-ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to amendment filed on 04/26/2006.
2. ☒ The allowed claim(s) is/are 1 and 2.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____

Art Unit: 2879

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

In claims

Claim 1. (Amended) A color cathode ray tube including a panel to display image, a neck where electron gun is housed and a funnel which connect the panel and the neck,

an outer surface of the panel having a film is formed substantially flat, an inner surface of the panel having a phosphor layer has a curvature, and a wall thickness differs between a center portion and a peripheral portion of the panel, wherein

the panel is formed of a tinted glass,

a peripheral transmissivity ratio which is ratio of transmissivities of the peripheral portion and the central portion of the panel before the film is set to a value not greater than 60%, and

body color of the panel is set such that

$L^* = 30 \text{ to } 40$, $a^* = \overline{-8.5} \text{ } \underline{-8.5} \text{ to } 1.5$, $b^* = \overline{-b} \text{ } \underline{-5} \text{ to } 5$ at the center portion, and

Art Unit: 2879

$L^* = 13.5$ to 23.5 , $a^* = \overline{-7.5} \text{ } \underline{-7.5}$ to 2.5 , $b^* = \overline{-6.5} \text{ } \underline{-6.5}$
to 3.5 at the peripheral portion,

where color difference $\Delta a^* b^*$ is set at $\Delta a^* b^* \leq 3$,

and the film formed on the outer surface of the panel is constituted of a wavelength selective absorption layer which is thick at the panel center portion and thin at the panel peripheral portion and an electrical conductive layer which is formed over the wavelength selective absorption layer, and

the transmissivity ratio at the panel peripheral portion after the formation of the film is set to a value not less than 60% and the color difference is set to satisfy a relationship

the color difference $\Delta a^* b^*$ after the formation of the film \leq color difference $\Delta a^* b^*$ before the formation of the film,

where L^* is luminance at $L^* a^* b^*$ colorimetric system of CIE 1976 $L^* a^* b^*$ color space, a^* and b^* are psychometric chroma coordinates at $L^* a^* b^*$ colorimetric system of CIE 1976 $L^* a^* b^*$ color space.

Claim 2. (Amended) A color cathode ray tube according to claim 1, wherein with respect to the electronic conductive layer, the transmissivity at the panel center portion is expressed by

$70\% \leq T(550) \leq 90\%$ and

where $T(550)$ is the transmissivity at a wavelength of 550nm,

Art Unit: 2879

the chromaticity of transmitting light at the panel center portion when an incident light to the panel from an ambient light is set as a D65 standard light has the gradation expressed by

$$\underline{-1} \quad \underline{-1} \leq a^* \leq 2.5 \quad \underline{\text{and}}$$

$$\underline{-4} \quad \underline{-4} \leq b^* \leq 0.5.$$

The Examiner amended claims 1 and 2 by **informal** amendment to correct typographical and grammatical errors. Applicant's response is not deemed necessary in response to this informal amendment.

2. The following is an examiner's statement of reasons for allowance: withdrawal of 35 U.S.C.12, first paragraph rejection of former claims 1 and 2 in view of applicant's amendment of claim 1 and specification clarifying meaning of the different terms as mentioned in the previous office action.

Prior art of the record does not disclose applicant's claimed color CRT including a panel, a neck, a funnel, the panel having outer surface, an inner surface and a wall thickness differing between a center portion and a peripheral portion of the panel, the panel being formed of a tinted glass, a peripheral transmissivity of the peripheral portion and the central portion of the panel before the film is set to a value

Art Unit: 2879

not greater than 60%, and body color of the panel is set such that:

$L^* = 30$ to 40 , $a^* = -8.5$ to 1.5 , $b^* = -5$ to 5 at the center portion, and $L^* = 13.5$ to 23.5 , $a^* = -7.5$ to 2.5 , $b^* = -6.5$ to 3.5 at the peripheral portion, where color difference $\Delta a^* b^*$ is set at $\Delta a^* b^* \leq 3$,

and the film formed on the outer surface of the panel is constituted of a wavelength selective absorption layer which is thick at the panel center portion and thin at the panel peripheral portion and an electrical conductive layer which is formed over the wavelength selective absorption layer, and

the transmissivity ratio at the panel peripheral portion after the formation of the film is set to a value not less than 60% and the color difference is set to satisfy a relationship:

the color difference $\Delta a^* b^*$ after the formation of the film \leq color difference $\Delta a^* b^*$ before the formation of the film,

where L^* is luminance at $L^* a^* b^*$ colorimetric system of CIE 1976 $L^* a^* b^*$ color space, a^* and b^* are psychometric chroma coordinates at $L^* a^* b^*$ colorimetric system of CIE 1976 $L^* a^* b^*$ color space.

3. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to


Art Unit: 2879

avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ashok Patel whose telephone number is 571-272-2456. The examiner can normally be reached on Monday-Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nimesh Patel can be reached on 571-272-2457. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).


Ashok Patel
Primary Examiner
Art Unit 2879